

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	246	kojima-yasuhiko.in. mori-hiroyuki.in. ono-hirofumi.in.	US-PGPUB; USPAT	OR	ON	2007/09/13 15:37
L4	52	3 and (vaporiz\$4 vaporiz\$5 evaporat\$5)	US-PGPUB; USPAT	OR	ON	2007/09/13 15:58
L5	0	"198503460"	EPO; JPO; DERWENT	OR	ON	2007/09/13 16:53
L6	14	("5865421").URPN.	USPAT	OR	ON	2007/09/13 15:53
L7	4	("3915193"   "5201341"   "5419924"   "5440887").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/13 15:57
L8	1806	"137"/\$.cccls. and ((valv\$3 diaphragm) same (vaporiz\$4 vaporiz\$5 evaporat\$5))	US-PGPUB; USPAT	OR	ON	2007/09/13 19:27
L9	1219	"137"/\$.cccls. and ((valv\$3 diaphragm) with (vaporiz\$4 vaporiz\$5 evaporat\$5))	US-PGPUB; USPAT	OR	ON	2007/09/13 15:59
L10	361	"137"/\$.cccls. and ((valv\$3 diaphragm) same (vaporiz\$4 vaporiz\$5 evaporat\$5)) and ((stor\$4 collect\$4) with liquid)	US-PGPUB; USPAT	OR	ON	2007/09/13 16:00
L11	25	"137"/\$.cccls. and ((valv\$3 same diaphragm) same (vaporiz\$4 vaporiz\$5 evaporat\$5)) and ((stor\$4 collect\$4) with liquid)	US-PGPUB; USPAT	OR	ON	2007/09/13 16:04
L12	0	"137"/\$.cccls. and ((valv\$3 same diaphragm) same (vaporiz\$4 vaporiz\$5 evaporat\$5)).ti.	US-PGPUB; USPAT	OR	ON	2007/09/13 16:05
L13	6	"137"/\$.cccls. and ((valv\$3 same diaphragm) same (vaporiz\$4 vaporiz\$5 evaporat\$5)) and (valv\$3).ti. same (vaporiz\$4 vaporiz\$5 evaporat\$5).ti.	US-PGPUB; USPAT	OR	ON	2007/09/13 16:05
L14	17	("3741232").URPN.	USPAT	OR	ON	2007/09/13 16:21
L15	2	("4112704").URPN.	USPAT	OR	ON	2007/09/13 16:26
L16	14	("5865421").URPN.	USPAT	OR	ON	2007/09/13 16:31
L17	5	("3598506"   "5145147"   "5470045"   "5865421"   "6172445").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/13 16:32
L18	3	("4008876"   "4043532"   "4830332").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/13 16:33
L19	5	("5470045").URPN.	USPAT	OR	ON	2007/09/13 16:37
L20	4	("3134932"   "4813647"   "5046701").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/13 16:38
L21	5	("5470045").URPN.	USPAT	OR	ON	2007/09/13 16:38
L22	24	("3889538"   "3930908"   "4232063"   "4241761"   "4558845"   "4579080"   "4668365"   "4761269"   "5000113"   "5035200"   "5203925"   "5272880"   "5419924"   "5431736"   "5431763"   "5520001"   "5630878"   "5645642"   "5865421"   "6006701"   "6131307"   "6167323"   "6179277"   "6224681").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/13 16:43
L23	0	"08800525"	EPO; JPO; DERWENT	OR	ON	2007/09/13 16:56
L24	14	"8800525"	EPO; JPO; DERWENT	OR	ON	2007/09/13 16:54
L25	0	"80800525"	EPO; JPO; DERWENT	OR	ON	2007/09/13 16:54
L26	2	"08200525"	EPO; JPO; DERWENT	OR	ON	2007/09/13 16:56
L27	5	("6752387").URPN.	USPAT	OR	ON	2007/09/13 16:57

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L28	6	("4368100"   "6162734"   "6224681"   "6752387"   "6783118"   "6830608").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/13 16:59
L29	0	("7115186").URPN.	USPAT	OR	ON	2007/09/13 17:00
L30	44	("20030121608"   "20040261850"   "20040262562"   "20050011555"   "3606241"   "4273028"   "4437488"   "4513945"   "4582294"   "4826132"   "4903938"   "4944487"   "5112027"   "5188337"   "5282604"   "5326078"   "5375738"   "5383646"   "5386849"   "5413311"   "5520001"   "5624102"   "5669596"   "5743513"   "5755428"   "5820105"   "5865421"   "5881997"   "6007046"   "6073648"   "6092550"   "6116267"   "6179925"   "6202672"   "6241213"   "6394415"   "6508453"   "6585823"   "6659421"   "6752387"   "6907897"   "6941963"   "7021330").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/13 17:00
L31	7	("5520001").URPN.	USPAT	OR	ON	2007/09/13 17:15
L32	0	09/658,501	US-PGPUB; USPAT	OR	ON	2007/09/13 18:54
L33	3231	((137/602,605) or (261/38,62) or (251/129.02,129.17,326,331)).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/09/13 19:26
L34	97	33 and ((valv\$3 diaphragm) same (vaporis\$4 vaporiz\$5 evaporat\$5))	US-PGPUB; USPAT	OR	ON	2007/09/13 19:39
L35	50	(US-20030068436-\$ or US-20020192375-\$ or US-20040188866-\$ or US-20020009545-\$ or US-20020017246-\$ or US-20050092250-\$).did. or (US-6179277-\$ or US-6926774-\$ or US-5520001-\$ or US-6267820-\$ or US-6224681-\$ or US-6126994-\$ or US-4875658-\$ or US-5440887-\$ or US-5203925-\$ or US-5630878-\$ or US-5925189-\$ or US-6131307-\$ or US-5431736-\$ or US-4748313-\$ or US-5865421-\$ or US-6096134-\$ or US-5272880-\$ or US-5419924-\$ or US-6752387-\$ or US-6116267-\$ or US-5857661-\$ or US-6805907-\$ or US-6409839-\$ or US-1939783-\$ or US-5371828-\$ or US-6783118-\$).did. or (US-6793965-\$ or US-6261374-\$ or US-6877724-\$ or US-6548112-\$ or US-6424800-\$ or US-4847469-\$ or US-6503564-\$ or US-5372754-\$ or US-6784118-\$ or US-5145147-\$ or US-5470045-\$ or US-6345803-\$ or US-7115186-\$ or US-7191793-\$ or US-6907897-\$ or US-6941963-\$).did. or (JP-08200525-\$).did. or (JP-08200525-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/09/13 19:27
L36	83	34 not 35	US-PGPUB; USPAT	OR	ON	2007/09/13 19:27
L37	4	("5758864").URPN.	USPAT	OR	ON	2007/09/13 19:30
L38	449	(vacuum\$4 evacuat\$4 exhaust\$4 de\$1pressur\$4 ((low reduc\$4) with pressure)).clm. and (valv\$3 diaphragm).clm. and (vaporis\$4 vaporiz\$5 evaporat\$5).clm. and flow\$3.clm. and (piston actuat\$4).clm. and (port conduit aperture hole pip\$3).clm.	US-PGPUB; USPAT	OR	ON	2007/09/13 19:38
L39	368	(vacuum\$4 evacuat\$4 exhaust\$4 de\$1pressur\$4 ((low reduc\$4) with pressure)).clm. and (valv\$3 diaphragm).clm. and (vaporis\$4 vaporiz\$5 evaporat\$5).clm. and flow\$3.clm. and (piston actuat\$4).clm. and (port conduit aperture hole pip\$3).clm. and control\$4.clm.	US-PGPUB; USPAT	OR	ON	2007/09/13 19:38
L40	365	39 not (34 35)	US-PGPUB; USPAT	OR	ON	2007/09/13 19:40
L41	365	39 not (33 34 35)	US-PGPUB; USPAT	OR	ON	2007/09/13 19:40
S7	3	((("5440887") or ("6224681") or ("5630878"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/01/10 15:14
S8	15	("5630878").URPN.	USPAT	OR	ON	2006/01/10 16:26

## EAST Search History

S9	24	("3889538"   "3930908"   "4232063"   "4241761"   "4558845"   "4579080"   "4668365"   "4761269"   "5000113"   "5035200"   "5203925"   "5272880"   "5419924"   "5431736"   "5431763"   "5520001"   "5630878"   "5645642"   "5865421"   "6006701"   "6131307"   "6167323"   "6179277"   "6224681").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/10 16:34
S10	2	("6752387").URPN.	USPAT	OR	ON	2006/01/10 16:43
S11	9	("4748313"   "4875658"   "5299919"   "5630878"   "5919332"   "5925189"   "5989635"   "6176930"   "6267820").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/10 17:14
S12	127	((vaporiser vaporizer) with diaphragm)	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/10 17:14
S13	3059	((vapor\$5) with diaphragm)	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/10 17:15
S14	52	((vapor\$5) with diaphragm with liquid with (hold\$3 stor\$3) with (open\$3 clos\$3 enter\$3 exit\$3 shut\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/10 17:19
S15	0	((vapor\$5) with diaphragm with liquid with (hold\$3 stor\$3) with (open\$3 clos\$3 enter\$3 exit\$3 shut\$4))	EPO; JPO; DERWENT	OR	ON	2006/01/10 17:21
S16	3	((vaporizer vaporiser) with diaphragm with liquid with (hold\$3 stor\$3) with (open\$3 clos\$3 enter\$3 exit\$3 shut\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/10 17:20
S17	3	((vaporizer vaporiser) with diaphragm with (hold\$3 stor\$3) with (open\$3 clos\$3 enter\$3 exit\$3 shut\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/10 17:20
S18	1326925	((vapor\$5) with diaphragm w)	EPO; JPO; DERWENT	OR	ON	2006/01/10 17:21
S19	546	((vapor\$5) with diaphragm )	EPO; JPO; DERWENT	OR	ON	2006/01/10 17:22
S20	129	((vaporiser vaporizer) and diaphragm )	EPO; JPO; DERWENT	OR	ON	2006/01/10 17:22
S21	0	(vaporiser vaporizer) and diaphragm and (fluid liquid) with (stor\$3 hold\$3) with temporar\$5	EPO; JPO; DERWENT	OR	ON	2006/01/10 17:23
S22	3	(vaporiser vaporizer) and diaphragm and ((fluid liquid) with (stor\$3 hold\$3))	EPO; JPO; DERWENT	OR	ON	2006/01/10 17:24
S23	198	(vaporiser vaporizer) and diaphragm and ((fluid liquid) with (stor\$3 hold\$3))	US-PGPUB; USPAT	OR	ON	2006/01/10 17:25
S24	9	(vaporiser vaporizer) same diaphragm same ((fluid liquid) with (stor\$3 hold\$3))	US-PGPUB; USPAT	OR	ON	2006/01/10 17:48
S25	15	(("4666126" or ("4828219") or ("5371828") or ("5857661") or ("6116267") or ("6394417") or ("6056823") or ("5372754") or ("5419924") or ("5440887") or ("5776254") or ("6074487") or ("6210485") or ("6224681") or ("5630878"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/01/10 17:50
S26	16	("5371828").URPN.	USPAT	OR	ON	2006/01/10 17:55
S27	13	("1939783"   "2949768"   "3119004"   "3151562"   "4352252"   "4352636"   "4493614"   "5098741"   "5204314").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/10 17:57
S28	29	("5419924").URPN.	USPAT	OR	ON	2006/01/10 18:01
S29	3	(vaporiser vaporizer) same (valv\$3 diaphragm) same ((fluid liquid) with (stor\$3 hold\$3 collect\$3 accumul\$4) with temporar\$5)	US-PGPUB; USPAT	OR	ON	2006/01/11 12:47
S30	400	(vaporiser vaporizer) same (valv\$3 diaphragm) same ((fluid liquid) with (stor\$3 hold\$3 collect\$3 accumul\$4) )	US-PGPUB; USPAT	OR	ON	2006/01/11 11:10
S31	10	(vaporiser vaporizer) same (diaphragm) same ((fluid liquid) with (stor\$3 hold\$3 collect\$3 accumul\$4) )	US-PGPUB; USPAT	OR	ON	2006/01/11 11:11

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S32	15	("5630878").URPN.	USPAT	OR	ON	2006/01/11 11:20
S33	9	("4748313"   "4875658"   "5299919"   "5630878"   "5919332"   "5925189"   "5989635"   "6176930"   "6267820").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/11 11:23
S34	20	("3175567"   "3409031"   "4103827"   "4566416"   "4684104"   "4762668"   "4893361"   "5085244"   "5123433"   "5383970"   "5395592"   "5749389"   "5925189"   "5962085"   "5968588"   "6036783"   "6079354"   "6176930").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/11 11:24
S35	2	("5234724"   "5607002").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/11 11:32
S36	2	("5234724"   "5607002").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/11 11:34
S37	8	("5925189").URPN.	USPAT	OR	ON	2006/01/11 11:34
S38	9	("4748313"   "4875658"   "5299919"   "5630878"   "5919332"   "5925189"   "5989635"   "6176930"   "6267820").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/11 11:38
S39	15	("5630878").URPN.	USPAT	OR	ON	2006/01/11 11:38
S40	20	("3175567"   "3409031"   "4103827"   "4566416"   "4684104"   "4762668"   "4893361"   "5085244"   "5123433"   "5383970"   "5395592"   "5749389"   "5925189"   "5962085"   "5968588"   "6036783"   "6079354"   "6176930").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/11 12:35
S41	1	("5925189").PN.	US-PGPUB; USPAT	OR	OFF	2007/09/13 18:54
S42	8	("5925189").URPN.	USPAT	OR	ON	2006/01/11 12:35
S43	20	("3175567"   "3409031"   "4103827"   "4566416"   "4684104"   "4762668"   "4893361"   "5085244"   "5123433"   "5383970"   "5395592"   "5749389"   "5925189"   "5962085"   "5968588"   "6036783"   "6079354"   "6176930").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/11 12:36
S44	2	("6267820").URPN.	USPAT	OR	ON	2006/01/11 12:36
S45	2	("5234724"   "5607002").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/11 12:46
S46	328	(vapor\$7 same (valv\$3 diaphragm) same (fluid liquid)) and (118/715.ccls. 118/726.ccls.)	US-PGPUB; USPAT	OR	ON	2006/01/11 12:48
S47	24	("3889538"   "3930908"   "4232063"   "4241761"   "4558845"   "4579080"   "4668365"   "4761269"   "5000113"   "5035200"   "5203925"   "5272880"   "5419924"   "5431736"   "5431763"   "5520001"   "5630878"   "5645642"   "5865421"   "6006701"   "6131307"   "6167323"   "6179277"   "6224681").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/11 12:51
S48	8	("5431736").URPN.	USPAT	OR	ON	2006/01/11 12:57
S49	24	("3889538"   "3930908"   "4232063"   "4241761"   "4558845"   "4579080"   "4668365"   "4761269"   "5000113"   "5035200"   "5203925"   "5272880"   "5419924"   "5431736"   "5431763"   "5520001"   "5630878"   "5645642"   "5865421"   "6006701"   "6131307"   "6167323"   "6179277"   "6224681").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/11 13:02
S50	9	("3930908"   "4232063"   "4579080"   "4668365"   "4761269"   "5000113"   "5035200"   "5203925"   "5204314").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/11 13:08
S51	2	("6224681").URPN.	USPAT	OR	ON	2006/01/11 13:13
S52	455	(261/62).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/01/11 14:04

## EAST Search History

S53	24	("3889538"   "3930908"   "4232063"   "4241761"   "4558845"   "4579080"   "4668365"   "4761269"   "5000113"   "5035200"   "5203925"   "5272880"   "5419924"   "5431736"   "5431763"   "5520001"   "5630878"   "5645642"   "5865421"   "6006701"   "6131307"   "6167323"   "6179277"   "6224681").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/11 13:18
S54	8	("5431736").URPN.	USPAT	OR	ON	2006/01/11 13:22
S55	16	("0921934"   "1122703"   "1202771"   "1207664"   "1798065"   "1965144"   "3759444"   "4916077"   "4950456"   "5204314").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/11 13:23
S56	4	("3915193"   "5201341"   "5419924"   "5440887").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/11 13:28
S57	2	("6131307").URPN.	USPAT	OR	ON	2006/01/11 13:44
S58	31	S52 and vapor\$7	US-PGPUB; USPAT	OR	ON	2006/01/11 14:01
S59	11016	261/31-71.ccls.	US-PGPUB; USPAT	OR	ON	2006/01/11 14:05
S60	791	261/31-71.ccls. and vapor\$7	US-PGPUB; USPAT	OR	ON	2006/01/11 14:12
S61	534	261/31-71.ccls. and (vaporis\$5 vaporiz\$5)	US-PGPUB; USPAT	OR	ON	2006/01/11 14:13
S62	34	("5203925").URPN.	USPAT	OR	ON	2006/01/11 16:21
S63	492	(261/dig.65).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/01/11 17:07
S64	0	09/658,501	US-PGPUB; USPAT	OR	ON	2006/01/11 17:07
S65	1	("5630878").PN.	US-PGPUB; USPAT	OR	OFF	2006/01/12 15:46
S66	11	yuuki.in. and vaporizer	US-PGPUB; USPAT	OR	ON	2006/01/12 15:47
S67	1	("5776254").PN.	US-PGPUB; USPAT	OR	OFF	2006/01/12 15:47
S68	27	(US-20040188866-\$).did. or (US-1939783-\$ or US-4748313-\$ or US-4875658-\$ or US-5203925-\$ or US-5272880-\$ or US-5371828-\$ or US-5419924-\$ or US-5431736-\$ or US-5440887-\$ or US-5520001-\$ or US-5630878-\$ or US-5857661-\$ or US-5865421-\$ or US-5925189-\$ or US-6096134-\$ or US-6116267-\$ or US-6126994-\$ or US-6131307-\$ or US-6179277-\$ or US-6224681-\$ or US-6261374-\$ or US-6267820-\$ or US-6752387-\$ or US-6783118-\$ or US-6793965-\$ or US-6926774-\$).did.	US-PGPUB; USPAT	OR	ON	2006/01/12 17:29
S69	16	S68 and (diaphragm or bellows)	US-PGPUB; USPAT	OR	ON	2006/01/12 16:06
S70	99	siz\$3 same conic\$5 same (vaporis\$5 vaporiz\$5)	US-PGPUB; USPAT	OR	ON	2006/01/12 17:30
S71	11	siz\$3 same conic\$5 same (vaporis\$5 vaporiz\$5)	EPO; JPO; DERWENT	OR	ON	2006/01/12 17:30
S72	38	(siz\$3 length diameter) same conic\$5 same (vaporis\$5 vaporiz\$5)	EPO; JPO; DERWENT	OR	ON	2006/01/12 17:31
S73	290	(siz\$3 length diameter) same conic\$5 same (vaporis\$5 vaporiz\$5)	US-PGPUB; USPAT	OR	ON	2006/01/12 17:42
S74	99	(siz\$3 length diameter) same conic\$5 same (vaporis\$5 vaporiz\$5) same chamber	US-PGPUB; USPAT	OR	ON	2006/01/12 17:30
S75	21	S73 and (118/715-733.ccls. 156/345.\$ccls. "427"/\$.ccls. "438"/\$.ccls. "216"/\$.ccls.)	US-PGPUB; USPAT	OR	ON	2006/01/13 12:03

## EAST Search History

S76	12	("4678769"   "4954371"   "5017403"   "5173327"   "5224202"   "5271963"   "5451260"   "5835678"   "5882416"   "6178925"   "6244575"   "6280793").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/12 17:46
S77	74	((vaporis\$5 vaporiz\$5) with chamber with siz\$3) and (118/715-733.ccls. 156/345.\$ccls. "427"/\$.ccls. "438"/\$.ccls. "216"/\$.ccls.)	US-PGPUB; USPAT	OR	ON	2006/01/13 14:03
S78	1	("5440887").PN.	US-PGPUB; USPAT	OR	OFF	2006/01/13 14:03
S79	1	("5440887").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/23 14:10